LISTING OF THE CLAIMS:

No Admission. The claims presented below are labeled pursuant to the request of the Patent and Trademark Office for convenience in examination. Reference to a claim as "currently amended" or "new" is not an admission that the claim was altered of added for any reason related to patentability.

1. (Currently Amended) A motoneuronotrophic factor peptide analogue 6 to 32 amino acids in length, said peptide analogue comprising an amino acid sequence according to containing an amino acid sequence selected from the group consisting of:

----(a) SEQ ID NO:2,; and (b) SEQ ID NO:3

wherein said peptide analogue enhances the viability of motor neurons.

- 2. (Original) A motoneuronotrophic factor peptide analogue according to claim 1, wherein the amino acid sequence of said peptide is at least 70% identical to nine to 32 consecutive amino acid residues of SEQ ID NO: 1.
- 3. (Original) A motoneuronotrophic factor peptide analogue according to claim 1, wherein the amino acid sequence of said peptide is at least 80% identical to eight to 32 consecutive amino acid residues of SEO ID NO: 1.
- 4. (Original) A motoneuronotrophic factor peptide analogue according to claim 1, wherein the amino acid sequence of said peptide is at least 90% identical to seven to 32 consecutive amino acid residues of SEQ ID NO: 1.
- 5. (Original) A motoneuronotrophic factor peptide analogue according to claim 4 containing one or more conservative amino acid substitutions to the seven to 32 consecutive amino acid residues of SEQ ID NO:1.
- 6. (Original) A motoneuronotrophic factor peptide analogue according to claim 1, said peptide comprising a fragment of six to 32 consecutive amino acid residues of SEQ ID

NO:1.

- 7. (Currently Amended) A motoneuronotrophic factor peptide analogue according to claim 1, selected from the group consisting of; (a) SEQ ID NO:12, (b) SEQ ID NO:23, (c) SEQ ID NO:4, (d) SEQ ID NO:5, (e) SEQ ID NO:6, and (f) SEQ ID NO:7.
- 8. (Currently Amended) A conjugate comprising: (a) a motoneuronotrophic factor peptide 6 to 32 amino acids in length containing an amino acid sequence comprising an amino acid sequence according to containing an amino acid sequence selected from the group consisting of SEQ ID NO: 2 and SEQ ID NO:3; and (b) a solid particle, carrier protein or label linked to the motoneuronotrophic factor peptide.
- 9. (Currently Amended) A fusion protein comprising: (a) a motoneuronotrophic factor peptide 6 to 32 amino acids in length containing an amino acid sequence comprising an amino acid sequence according to containing an amino acid sequence selected from the group consisting of SEQ ID NO: 2 and SEQ ID NO:3; and (b) a heterologous protein fused to the motoneuronotrophic factor peptide.
- 10. (Original) A composition comprising the peptide analogue of claim 1 and a carrier.
- 11. (Original) A composition for selectively promoting motor neuron viability and axon regeneration comprising an effective amount of the peptide analogue of claim 1 and a pharmaceutically acceptable carrier.
- 12. (Original) A composition for use in target muscle reinnervation comprising an effective amount of the peptide analogue of claim 1 and a pharmaceutically acceptable carrier.
- 13. (Original) A composition for use in treating peripheral nerve injuries comprising an effective amount of the peptide analogue of claim 1 and a pharmaceutically acceptable carrier.

- 14. (Original) A composition for use in treating neurodegenerative disease comprising an effective amount of the peptide analogue of claim 1 and a pharmaceutically acceptable carrier.
- 15. (Original) A composition for use in wound healing comprising an effective amount of the peptide analogue of claim 1 and a pharmaceutically acceptable carrier.
- 16. (Original) The composition of claim 15, wherein the effective amount is an amount sufficient to reduce the formation of scar tissue.
- 17. (Original) The composition of claim 15, wherein the effective amount is an amount sufficient to reduce the proliferation or infiltration of inflammatory cells.
- 16. (Original) A method for selectively promoting motor neuron viability and axon regeneration comprising administering an effective amount of the peptide analogue of claim 1 to neuronal cells in vivo or in vitro.
- 17. (Original) A method of reducing the apoptosis of damaged motoneurons and associated Schwann cells comprising administering an effective amount of the peptide analogue of claim 1 to the site of injury.
- 18. (Original) A method of inhibiting the growth, viability or migration of non-neuronal cells selected from the group consisting of fibroblasts, macrophages and lymphocytes comprising administering an effective amount of the peptide analogue of claim 1 to the site of injury.
- 19. (Original) A method of treating a spinal cord injury comprising administering an effective amount of a motoneuronotrophic factor peptide analogue according to claim 1 to the site of a nerve graft to the spinal cord injury.
 - 20 [[29]]. (Currently Amended) A method of treating neuromuscular degenerative

diseases where muscles associated with diseased motoneurons degenerate comprising administering an effective amount of a motoneuronotrophic factor peptide analog according to claim 1 to the affected site.

- 21 [[30]]. (Currently Amended) A method of protecting motoneurons from degeneration comprising administering an effective amount of a motoneuronotrophic factor peptide analog according to claim 1 to the site of a peripheral nerve injury.
- 22 [[31]]. (Currently Amended) A method of alleviating peripheral neuropathy and neuropathic pain comprising administering an effective amount of a motoneuronotrophic factor peptide analog according to claim 1 to the site of neuropathic pain.